## **DRAINAGE DESIGN**

OPERATOR			-		
COMMUNITY	PRACTICE_			OB APPROVAL CLASS	
FIELD NO.	DESIGNED B	DESIGNED BY		DATE	
	CHECKED B\	Y	г	DATE	
	APPROVED F	APPROVED BY		DATE	
		DESIGN FACTORS	3		
DRAINAGE AREA	(HT. BETV	WEEN ESW CREST AND C	LOW POINT)	MAX. STORAGE("≤50" OR '	AC FT.
	( <u>&lt;</u>	15", "15 <ht<20", "20<h"<="" or="" td=""><td>1533)</td><td></td><td></td></ht<20",>	1533)		
DESIGN STORM (IF REQUIRED)			W (IF REQUIRED)(a	۵	CFS
(ENG. STD. 378)			(WV-ENG1)	,	
DIAMETERIN (ENG. STD. 378)	. LENTH	FT. MATERIAL		INLET TYPE ("PROJECTING", "HOOE	IN. D", "CANOPY", "DR
PROP INLET SIZE(DIA. x HT. OR L x W x HT.)	MATERIAL_			SW CREST NG. STD. 378, EFM-CHAP. :	
PIPE PEAK DISCHARGE (IF REQUIRE (EFM CHAP. 3 OR CHAP. 6)	D)		AL SEEPAGE PROT		·
PIPE OUTLET PROTECTION	PSW INLE	PSW INLET PROTECTION("NONE", "ANTI-VORTEX PLATE" AND/OR "TRASH RACK")			
		TATED EARTH SPI M - EXHIBITS 11-2 & NNTC			
SOIL TYPE(USCS)		NSPECIES)		ANCE TO EROSION ("RESISTANT" OR "EASI	
ALLOWABLE VELOCITY (Va)				•	,
	(E	NG. STD. 378)		(WV-ENG1)	
BOTTOM WIDTHFT	STAGE (H <sub>p</sub> )	FT. SIDE SLOP	PES (Z) INSIDE	OUTSIDE _	
XIT CHANNEL SLOPE - MAX	% MIN		ANNEL SLOPE (SHOULD BE $\geq$ 2%)		
	FT. MAX. DE	ESIGN VELOCITY		EEBOARD (ENG. STD. 378)	FT
		ESIGN VELOCITY (MUST BE < ALLOWABL	LE VELOCITY)		FT
		ESIGN VELOCITY (MUST BE < ALLOWABL	LE VELOCITY)		FT
ENGTH OF LEVEL SECTION	WATER SUI	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN  (ENG. STD. 378)	ND FENCING	(ENG. STD. 378)	
ENGTH OF LEVEL SECTION	WATER SUI	ESIGN VELOCITY  (MUST BE < ALLOWABL  PPLY OR DRAIN AN  (ENG. STD. 378)	LE VELOCITY)  ND FENCING  LIVESTO	(ENG. STD. 378)  OCK WATERING RAMP ("YES" OR "NO")	
ENGTH OF LEVEL SECTION	WATER SUI	ESIGN VELOCITY  (MUST BE < ALLOWABL  PPLY OR DRAIN AN  (ENG. STD. 378)	LE VELOCITY)  ND FENCING  LIVESTO	(ENG. STD. 378)  OCK WATERING RAMP ("YES" OR "NO")	
ENGTH OF LEVEL SECTION	WATER SUIIN. MATERIAL TROUGH SIZ	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN (ENG. STD. 378)  ZE  EMBANKMENT (ENG. STD. 378)	LE VELOCITY)  ND FENCING  LIVESTO  TYPE FE	(ENG. STD. 378)  OCK WATERING RAMP ("YES" OR "NO")	
ENGTH OF LEVEL SECTION	WATER SUIIN. MATERIAL TROUGH SIZ	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN (ENG. STD. 378)  ZE  EMBANKMENT (ENG. STD. 378)	LE VELOCITY)  ND FENCING  LIVESTO  TYPE FE	(ENG. STD. 378)  OCK WATERING RAMP  ("YES" OR "NO")  ENCE	
ENGTH OF LEVEL SECTION	WATER SUI  IN. MATERIAL  TROUGH SIZ  FT.	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN  (ENG. STD. 378)  EMBANKMENT (ENG. STD. 378)  SIDE SLOP	LE VELOCITY)  ND FENCING  LIVESTO  TYPE FE	(ENG. STD. 378)  OCK WATERING RAMP  ("YES" OR "NO")  ENCE	
ENGTH OF LEVEL SECTION	WATER SUI  IN. MATERIAL  TROUGH SIZ  FT.	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN  (ENG. STD. 378)  EMBANKMENT (ENG. STD. 378)  SIDE SLOP	LE VELOCITY)  ND FENCING  LIVESTO  TYPE FE	(ENG. STD. 378)  DCK WATERING RAMP ("YES" OR "NO")  ENCE  DOWN	
DIAMETER	WATER SUI  IN. MATERIAL  TROUGH SIZ  FT.  AC.	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN  (ENG. STD. 378)  EMBANKMENT (ENG. STD. 378)  SIDE SLOP  RESERVOIR  STORAGE  ELEVATIONS	LE VELOCITY)  ND FENCING  LIVESTO  TYPE FE	(ENG. STD. 378)  DCK WATERING RAMP ("YES" OR "NO")  ENCE  DOWN  _ACFT.*	GALLONS**
DIAMETER  TROUGH TYPE  SURFACE AREA  SETTLED FILL  EARTH SPILLWAY CREST	WATER SUI	ESIGN VELOCITY (MUST BE < ALLOWABL  PPLY OR DRAIN AN (ENG. STD. 378)  E  EMBANKMENT (ENG. STD. 378)  SIDE SLOF  RESERVOIR  STORAGE  ELEVATIONS  PIPE SPILE	LE VELOCITY)  ND FENCING  LIVESTO  TYPE FE	(ENG. STD. 378)  DCK WATERING RAMP ("YES" OR "NO")  ENCE  DOWN  _ACFT.*	GALLONS**

 $<sup>^{\</sup>star}$  IF TOPO. NOT AVAILABLE, USE 0.4 x SURFACE AREA (ACRES) x MAXIMUM WATER DEPTH (FEET). \*\* 1 AC.FT. = 326,000 GALLONS.